

DERWENT-ACC-NO: 1997-120455

DERWENT-WEEK: 200306

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TITLE: Prodn. of tri:chloro:silane - by reducing
tetra:chloro:silane in fluidised bed reactor
contg. silicon@ particles

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PRIORITY-DATA: 1995DE-1034922 (September 21, 1995)

PATENT-FAMILY:

| PUB-NO | MAIN-IPC | PUB-DATE | LANGUAGE |
|---------------------|--------------|-------------------|----------|
| CN <u>1153138</u> A | C01B 033/107 | July 2, 1997 | N/A |
| 000 | C01B 033/04 | February 20, 1997 | N/A |
| DE 19534922 C1 | C01B 033/107 | May 6, 1997 | N/A |
| 003 | C01B 033/107 | March 22, 1997 | N/A |
| JP 09118512 A | C01B 033/08 | April 28, 1997 | N/A |
| 003 | C01B 033/107 | May 10, 1999 | N/A |
| CA 2185981 A | C01B 033/107 | May 22, 1998 | N/A |
| 000 | C01B 000/00 | | |
| KR 97015462 A | C01B 033/107 | | |
| 000 | C01B 033/04 | | |
| JP 2890253 B2 | C01B 033/107 | | |
| 003 | C01B 033/107 | | |
| IT 1284881 B | C01B 000/00 | | |
| 000 | | | |

INT-CL (IPC): B01J008/24, C01B000/00 , C01B033/04 , C01B033/08 ,
C01B033/107

ABSTRACTED-PUB-NO: DE 19534922C

BASIC-ABSTRACT:

Prodn. of trichlorosilane comprises reducing tetrachlorosilane in a fluidised bed reactor contg. Si particles, in which a reaction gas contg. H2 and tetrachlorosilane is passed through the fluidised bed to react with the Si particles and produce a product gas contg. trichlorosilane. The

product gas
can be removed from the reactor. The novelty is that the Si
particles are
heated by microwaves to 300-1100 deg.C. A process for producing pure
Si is
also claimed.

USE - The process is used to clean appts. used in the mfr.of
polycrystalline Si
from unwanted Si deposits.

ADVANTAGE - Conversion rate is increased.

CHOSEN-DRAWING: Dwg. 0/0